

New Combinations in Asian *Krascheninnikovia* Gueldenstaedt (Chenopodiaceae)

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ABSTRACT. New combinations in the genus *Krascheninnikovia* are proposed: *K. arborescens* (Losina-Losinskaja) Mosyakin, *K. compacta* (Losina-Losinskaja) Grubov var. *longipilosa* (Tsien Cho-po & Ma Cheng-gung) Mosyakin, and *Krascheninnikovia* sect. *Caudatae* (Aellen) Mosyakin.

Krascheninnikovia Gueldenstaedt (1772: 551) is the correct name for the genus previously commonly known as *Eurotia* Adanson and *Ceratoides* Gagnebin. This nomenclatural problem has been discussed by several authors over the years (Lozina-Lozinskaya, 1930; Reveal & Holmgren, 1972; Grubov, 1976; Guterman, 1975; Tomšovic, 1990; Tsvelev, 1993).

Unfortunately, when establishing the genus *Ceratoides*, Gagnebin (1755: 59) did not write a diagnosis, but rather only mentioned a pre-Linnaean work by Tournefort (1703). In the latter work the genus *Ceratoides* included both an annual species (later named by Linnaeus as *Ceratocarpus arenarius* L.), and a perennial one, which is conspecific with *Krascheninnikovia ceratoides* (L.) Gueldenstaedt. At the time of its establishment (Gagnebin, 1755) the genus *Ceratoides* included *Ceratocarpus arenarius*, the type of *Ceratocarpus* L. (1753); thus *Ceratoides* is a synonym of *Ceratocarpus*. The next available name for the genus is *Krascheninnikovia*. [More detailed discussion is provided by Guterman (1975) and Tsvelev (1993).] In the *Flora Reipublicae Popularis Sinicae* (Tsien Cho-po & Ma Cheng-gung, 1979) the name *Ceratoides* was accepted for this genus. Thus, the following new nomenclatural combinations are necessary for a forthcoming edition of the *Flora of China*.

Krascheninnikovia arborescens (Losina-Losinskaja) Mosyakin, comb. nov. Basionym: *Eurotia arborescens* Losina-Losinskaja, Izv. Akad. Nauk SSSR, Ser. 7, Otd. Fiz.-Mat. Nauk 1930, No. 9: 999. 1930. *Ceratoides arborescens* (Losina-Losinskaja) Tsien Cho-po & Ma Cheng-gung, *Flora Reipublicae Popularis Sinicae* 25(2): 27. 1979.

Krascheninnikovia compacta (Losina-Losinskaja) Grubov var. ***longipilosa*** (Tsien Cho-po & Ma Cheng-gung) Mosyakin, comb. nov. Basionym: *Ceratoides compacta* (Losina-Losinskaja) Tsien Cho-po & Ma Cheng-gung var. *longipilosa* Tsien Cho-po & Ma Cheng-gung, *Flora Reipublicae Popularis Sinicae* 25(2): 28. 1979.

When first describing the new variety *Ceratoides compacta* (Losina-Losinskaja) Tsien Cho-po & Ma Cheng-gung var. *longipilosa* Tsien Cho-po & Ma Cheng-gung, the authors did not cite the basionym for their new combination at the species level (see Kung Hsien-wu et al., 1978). Thus, the complete combination (species plus variety) was validated later in the *Flora Reipublicae Popularis Sinicae* (Tsien Cho-po & Ma Cheng-gung, 1979).

Two sections, based mostly on the differences in the structure of trichomes, were established by Aellen (1952) for the genus *Eurotia*. The correct names for these sections, as well as a new combination for one of them, are given below.

***Krascheninnikovia* sect. *Krascheninnikovia*.**
TYPE: *Krascheninnikovia ceratoides* (L.) Gueldenstaedt (type of the genus).

Eurotia sect. *Ecaudatae* Aellen, Verh. Naturf. Ges. Basel 63: 267. 1952. TYPE: not designated.

Because in Aellen's (1952) treatment the section *Ecaudatae* included the type of the genus, this name should be replaced by the appropriate autonym.

Krascheninnikovia* sect. *Caudatae (Aellen) Mosyakin, comb. nov. Basionym: *Eurotia* sect. *Caudatae* Aellen, Verh. Naturf. Ges. Basel 63: 267. 1952. TYPE: *Eurotia compacta* Losina-Losinskaja = *Krascheninnikovia compacta* (Losina-Losinskaja) Grubov.

The native North American species previously commonly known as *Eurotia lanata* (Pursh) Moquin-Tandon was transferred to *Krascheninnikovia* by Meeuse & Smith (1974). If accepted as a distinct

entity, another North American taxon described by Rydberg (1912) as *Eurotia subspinosa* is in need of the same transfer or a new infraspecific combination. However, in view of the current work on the *Flora of North America* project, I believe this nomenclatural decision should be left to American botanists.

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